```
In [3]: # Ask the user to enter a positive integer
        n = int(input("Enter a positive integer: "))
        # Check if the input is positive
        if n > 0:
            print("\nNumbers from 1 to n (using a for loop):")
            # Use a for loop to print all numbers from 1 to n
            for i in range(1, n + 1):
                print(i)
            print("\nSum of numbers from 1 to n (using a while loop):")
            \# Use a while loop to calculate the sum of all numbers from 1 to n
            total = 0
            counter = 1
            while counter <= n:</pre>
                total += counter
                counter += 1
            print(total)
        else:
            print("Please enter a positive integer.")
       Numbers from 1 to n (using a for loop):
       Sum of numbers from 1 to n (using a while loop):
       10
In [5]: # Define a user-defined function to calculate the square of a number
        def calculate_square(n):
            return n ** 2
        # Main program
        # Ask the user to input a positive integer
        user_input = int(input("Enter a positive integer: "))
        if user_input > 0:
            # Call the calculate_square function and display the result
            square = calculate_square(user_input)
            print(f"The square of {user_input} is {square}.")
        else:
            print("Please enter a positive integer.")
       The square of 45 is 2025.
```